

(19) World Intellectual Property  
Organization  
International Bureau



28 FEB 2004

(43) International Publication Date  
11 March 2004 (11.03.2004)

PCT

(10) International Publication Number  
**WO 2004/020103 A1**

(51) International Patent Classification<sup>7</sup>: **B02C 19/00**

(21) International Application Number:  
PCT/SE2003/001320

(22) International Filing Date: 27 August 2003 (27.08.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0202535-1 28 August 2002 (28.08.2002) SE

(71) Applicant (for all designated States except US): SAND-  
VIK AB [SE/SE]; S-811 81 Sandviken (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): DALLIMORE,  
Rowan [GB/GB]; 5 Charlton Park, Midsomer Norton,  
Radstock BA3 4BN (GB). FENSOME, George [GB/GB];  
11 Speedwall Close, Thornbury, Bristol BS35 1UD (GB).

KJAERRAN, Knut [SE/SE]; Rockarpsvägen 30 G, S-233  
91 Svedala (SE). NORMAN, Sven-Henrik [SE/SE]; Lilla  
Rödde 1, S-270 35 Blentarp (SE).

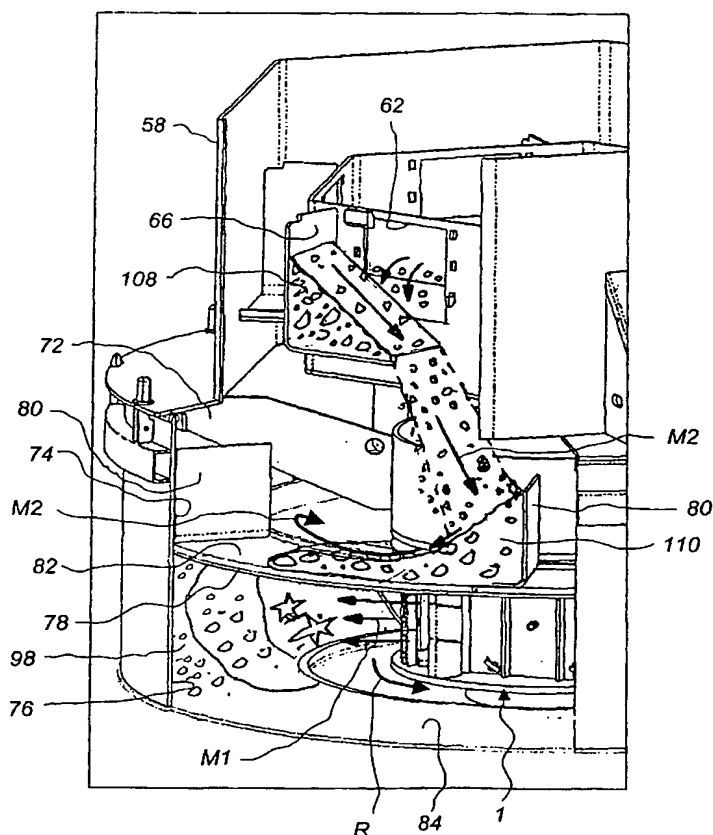
(74) Agent: AWAPATENT AB; Box 5117, S-200 71 Malmö  
(SE).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ (utility model), CZ, DE (utility model), DE, DK (utility  
model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI  
(utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID,  
IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,  
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO,  
NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,  
SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,  
VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: A CRUSHER AND A METHOD OF CRUSHING MATERIAL



(57) **Abstract:** A method of crushing material comprises the steps of feeding a first flow of material (M1) to be crushed to a rotor (1) rotating around a vertical axis, in said rotor (1) accelerating said first flow of material towards an impact wall section (76), and feeding a second flow of material (M2) to be crushed into the path of the accelerated first flow of material (M1). The second flow of material (M2) is fed in a direction having a substantially tangential component in relation to the rotor (1), such that the second flow of material (M2) will have a substantially tangential component of movement in relation to the rotor (1) when reaching the path of the first flow of material (M1). A crusher is adapted to feed the second flow of material (M2) such that it will have a substantially tangential component of movement in relation to the rotor (1) when reaching the path of the first flow of material (M1).

WO 2004/020103 A1